# Final Printed Labeling Tramadol Hydrochloride Tablets, 50 mg

75-968 AP6/25/02

Exp. Date

USUAL DOSAGE: See accompanying literature for complete prescribing information.

Store at controlled room temperature 15°-30°C (59°-86°F) (see USP). Protect from light.

This is a bulk package. Dispense contents with a child-resistant closure (as required) and in a tight, light-resistant container as defined in the USP.

Issued 06/02 L6047 NDC 0185-0311-01

## Tramadol Hydrochloride Tablets

50 mg

100 Tablets

Rox only JUN 25

**/** Eon Labs

Each tablet contains: Tramadol Hydrochloride...50 mg

KEEP TIGHTLY CLOSED.

KEEP THIS AND ALL MEDICATION OUT OF, THE REACH OF CHILDREN.

Manufactured by Discontinuous Control of Con

Exp. Date

USUAL DOSAGE: See accompanying literature for complete prescribing information.

Store at controlled room temperature 15°-30°C (58°-86°F) (see USP). Protect from light

This is a bulk package. Dispense contents with a child-resistant closure (as required) and in a tight, light-resistant container as defined in the USP.

Issued 06/02 L6054 NDC 0185-0311-05

## Tramadol Hydrochloride Tablets

50 mg

Rx only JUN 15

500 Tablets

**E** Eon Labs

Each tablet contains: Tramadol Hydrochloride...50 mg

KEEP TIGHTLY CLOSED.

KEEP THIS AND ALL MEDICATION OUT OF THE REACH OF CHILDREN.

2002

Manufactured by: Eon Labs, Inc. Laurelton, NY 114 . Loi No

USUAL DOSAGE: See accompanying literature for complete prescribing information.

Store at controlled room temperature 15°-30°C (59°-86°F) (see USP). Protect from light.

This is a bulk package. Dispense contents with a child-resistant closure (as required) and in a tight, light-resistant container as defined in the USP.

Issued 06/02 L6061 NDC 0185-0311-10

# Tramadol Hydrochloride Tablets

50 mg

Rx only 1000 Tablets

**=** Eon Labs

Each tablet contains: Tramadol Hydrochloride...50 mg

KEEP TIGHTLY CLOSED.

LEEP THIS AND ALL (MEDICATION OUT OF THE REACH OF CHILDREN.

Manufactured by Eon Labs, Inc. Laurelton, NY



## TRAMADOL HYDROCHLORIDE TABLETS

## Rz osty

ESCHEPTURM annadol hydrochloride is a centrally acting analossic. The chemical name for tramadol hydrochloride is (±)c/s-2-dmethylamino|methyl}-1-(1-methoxyohenyi) cyclohezanot hydrochloride. Its structural formula is:

The molecular weight of transacki hydrochtoride is 299.8. Transacki hydrochtoride is a white, bitter, crystalline and odor-less powder. It is readily soluble in water and elband and has a pKa of 9.41. The n-octanot/water log parition coefficient (page) is 1.53 at pt 7.

Each tablet for oral administration contains 50 mg of tramadol hydrochloride and the following inactive ingredients: colloidal silicon dioxide, corn starch, hydroxypropyl methylosiidase, baclosa monthydrata, magnesium stearate, micro-crystalline cultulose, polyethylene glycol, polysorbale 60, sodium starch glycolate, and thanium dioxide.

## CLINICAL PHARMACOLOGY

Pharmacolynamics
The annual property of the pr

decignors and wear immigration or requirate on integraphiant on an securious.

Opinid activity, for the to both from attliny binding of the parent compound and nigher affinity binding of the O-demothylsted netabolise M1 to p-opinid receptors. In anthral models, M1 is up to 6 times more potent than transack in producing analosis and 200 times more potent in p-opinid binding. Transack-indiced analyses is notly parinally antagonized by the opinida and adoption that absorber in several animal tests. The relative contribution of both transack and M1 to human analysis is dependent upon the plasma concentrations of each compound (see CLINICAL PHARMACOLOGY, Pharmacokhortics).

Transadel has been shown to intribit reuptake of noreginephrine and serotonin in vitro, as have some other opioid anal-gesics. These mechanisms may contribute independently to the overall analyses; profile of transadol hydrochloride. Analyses in humans begins approximately within one hour after administration and reaches a peak in approximately two

to unde assus.

Apart from analysis, transdol hydrochlonds administration may produce a constellation of symptoms (including dizziness, somowince, nausa, consignation, sweathing and primitips similar to that of other opicitis. In contrast to morphine, transdol has not been shown to cause histenine release. All three-period closes, (canado hydrochloride has no effect on heart rate, left-ventricular function or cardiac index. Orthostatic hypotension has been observed.

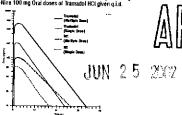
heart inst, left-entiriousis function or cardact more. Orunosame reports and in relabolite (see CLINICAL PHARIMACOLOGY, Pharmacokinetics. The analysis's cardiny of trainadol is due to both parent drug and the MT metabolite (see CLINICAL PHARIMACOLOGY, Pharmacodynamics). Yramadol is administered as a nacental analysis and absolute bioarchalogisty of 175%. Transadol has a volume of distribution of approximately 27 Ltg and is only 20% bound to bissma perceios. Trainadol is adessively metabolized by a reminer of patients, including CYP203 and CYP34AL as well as by conjugation of parent and metabolites. One metabolite, M1, is pharmacologically active in animal models. The formation of M1 is dependent upon CYP206 and as such is subject to inhibiting which may affect the interspecture response (see PRECAUTIONS). One interspectures promote (see PRECAUTIONS). One interspectures are not an animal models. The formation of M3 is dependent upon CYP206 and as such is subject to inhibiting which may affect the interspecture response (see PRECAUTIONS). One interspectures promote and the metabolites are screened primarily as the order with observed plasma tall-lives of 6.3 and 7.4 hours for transadol and the metabolites. The analysis of M3 and M4 respectively. Lessif pharmacolaractics leave been observed following multiple doses of 50 and 100 mg to standy-state.

Absorption

Racemic Iranadol is repidly and aimost completely abported after oral administration. The mean absolute bioarcitability of a 100 mg oral dose is approximately 75%. The mean peak plasma concentration of natemic tramadol and M1 occurs at two and three hours, respectively, after administration in healthy adults. In general, both enarritomers of tramadol and M1 follow a paraller time course in the body following single and multiple doses almough small difference. To (10% soids to the absolute amount of each enemiomer present.

Steamy-state plasma concentrations of both tramation and M1 are achieved within two days with q.i.d. dosing. There is no evidence of self-induction (see Figure 1 and Table 1 below).

Figure 1: :Mean Tramadol and M1 Plasma Concentration Profiles after a Single 100 mg Oral Bose and after Twenty-Mine 100 mg Oral doses of Tramadol HCI given q.i.d.



TaMe 1 Mean (%CV) Pharmacokipolic Paran elers for Racernic Tramadol and M1 Molabolite

Population/ Dosage Regimena	Parent Drug/ Metabolite	Peak Conc. (ng/mL)	Time to Peak (hm)	Clearance/Fb (mL/min/kg)	L 1/2 (hm)
Healthy Adults, 100 mg q.i.d., MD p.o.	Tramadol	592 (30)	2.3 (61)	5.90 (25)	6.7 (15)
	MI	110 (29)	2.4 (46)	- 6	7.0 (14)
Healthy Adulta, 100 mg SD p.c.	Tramedol	308 (25)	1.6 (63)	8.50 (31)	5.6 (20)
	M1	55.0 (36)	3.0 (51)	٠. د	6.7 (16)
Gertatric, (> 75 yrs) 50 mg S0 p.o.	Transdol	208 (31)	2.1 (19)	6 89 (25)	7.0 (23)
	M1	d	d	2	d
Hepatic Impaired 50 mg SD p b,	Tramadol	217 (11)	1.9 (16)	4.23 (56)	13.3 (11)
	Mi	19.4 (12)	9.8 (20)		18.5 (15]
Renal Impaired Ct <sub>cr</sub> 10-30 mL/min 100 mg SD i.v.	Tramadol	c	c	4.23 (54)	10.6 (31)
	MI	c	c	c	11.5 (40)
Renal Impaired CL <sub>cr</sub> <5 mUmin 100 mg SD i.v.	Transadol	c	ů	3,73 (17)	11.0 (29)
	MI	С	¢	· ·	16.9 (18)

- a SD = Single dose, MO = Multiple dose, p.o. = Oral administration, i.v.= Intravenous administration, q.i.d. = Four limes daity

  F represents the oral bioavallability of transdol

## Food Effects:

Oral administration of transdot with food does not significantly affect its rate or extent of absorption, therefore, transdot can be administered without regard to load.

Cate or announces or notion to the control of the c

Metabolism: Iramatol is attensively metabolized after oral administration. Approximately 30% of the dose is ascreted in the urine as our canaged drug, whereas 60% of the dose is screted as metabolize. The remainder is accreted either as unidentified or as unscraractable metabolizes. The major metabolic pathways appear to be A- and O-demethydation and glucuronistation or sunscraractable metabolizes. The major metabolic pathways appear to be A- and O-demethydation and glucuronistation or sunscraractable metabolizes. The major metabolic (O-desmethydramadol, denoted M1) is pharmacologically active in annual modes,

Formation of M1 is dependent on CYP2D6 and as such is subject to inhibition, which may affect the therapeutic response (see PRECAUTIONS, Drug Interaction).

(see PREGAUTIONS, Drug interaction). Approximately 7% of the population has reduced activity of the CYP2D6 issenzyme of cytochrome P-450. These individuals are 'poor metabolizars' of debis isoquine, dextromethorptan, tricyclic antidepressants, among other drugs. Based on a population PX analysis of PRSSS of studies is healthy subjects, concentrations of transdot were approximately 20% higher in your metabolizers' versus. Sententive metabolizers', while MT concentrations were 40% were. Committed your with initiations of CYP2D6 such as flavoration, parcerims and quintidine could result in significant drug interactions. In 1970 drug interactions 1970 drugs interactions 1970 drugs interactions 1970 drugs interactions and interaction and interaction and interaction and interaction and interaction and interaction of MI. The full pharmacological impact of these afteralisms in terms of either efficacy or safely is unknown. Committed interaction of MI. The full pharmacological impact of these afteralisms in terms of either efficacy or safely is unknown. Committed interaction of the production of MI. The full pharmacological impact of these afteralisms in terms of either efficacy or safely is unknown. Committed uses of SERCI (DIRIN in explote IMPRITIONS and MAO INHIBITORS may sehance the fisk of adverse events, including searce (see WARNINGS) and servicion syndrome.

## Elimination.

Transactive definites of primarity through metabolism by the liver and the metabolites are eliminated primarily by the kidneys. The mean terminal plasma elimination half-fires of racomic transaction and racomic M1 are  $5.3 \pm 1.4$  and  $7.4 \pm 1.4$  hours, respectively. The plasma elimination half-fires of racomic transactol increased from approximately six hours to seven hours upon multiple dosing.

## Special Populations

Alexaci
Impaired renal function results in a decreased rate and extent of exception of tramadol and its active metabolite, M1. In patients with creatinine clearances of less than 30 mL/min, adjustment of the desirg regimen is recommended (see Orange ANO ADMINISTRATION). The fotal amount of tramadol and M1 removed during a 4-hour dialysis period is less than 20 minutes and active recommended.

## Hepatic:

regain:
Metabolism of Iramadol and M1 is reduced in patients with advanced circhosis of the fiver, resulting in both a larger area under the concentration time curve for tramadol and longer tramadol and M1 elemination ball-lives (13 hrs. for tramadol and 43 hrs. for M1). In circhotic patients, adjustment of the dusting regimen is recommended (See DOSAGE AND ADMINISTRATION).

of treatment.

Feathy subjects aged 65 to 75 years have plasma, trained of concentrations and elimination half-lives comparable to those observed in healthy subjects less than 65 years of age. In subjects over 75 years, maximum sarrur concentrations are sirvaled (200 vs. 162 ng/mL) and the elimination half-life is prolonged (7 vs. 6 hours) compared to subjects 65 to 75 years of age. Adjustment of the daily dead is recommended for patients older than 75 years (see DOSAGE AND ADMINISTRAD).

Genom:

The absolute bioavailability of transdoi was 73% in males and 79% in lentales. The plasma clearance was 6.4 mL/min/kg
In males and 5.7 mL/min/kg in lentales following a 100 mg Nf dose of transdol. Following a single and dose, and after
adjusting for body weight, lentales bad a 12% higher peak transdol concentration and a 55% higher area under the concentration-time curve compared to males. The clinical significance of this difference is unknown.

Childral Studies

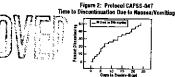
Transactory of the Committee of the Com

surgicial procedurus and pain following unal surgery (extraction of impacted molars).

In shighe-door models or plain following our surgery, pain relief veas demonstrated in some patients at doses of 50 mg and 75 mg. A dose of 100 mg and aprint 600 mg, pain relief veas demonstrated in some patients at doses of 50 mg, but it was not as effective as the combination of again 650 mg with codeline phosphate 60 mg.

Transatiol has been studied in threst long-term controlled trials involved an appear a total of 800 mg attention to the surface of the controlled photochistide. Patients with a variety of chronic paintial conditions were studied in deadle-billiod trials or one to three months charation. Avarage day doses of approximately 250 mg of transatiol hydrochistide. Bridded doses were generally comparable to the doses of acetaminophen 300 mg with codeline phosphate 30 mg (TYELEK) <sup>©</sup> with Codeline 30 day, for two lie three doses of acetaminophen 500 mg with opycodone hydrochistide of 5 mg (TYELEK) <sup>©</sup> daily.

'Maration Trials
In a randomized, blinded clinical study with 129 to 132 patients per group, a 10-day Intration to a daily tramadol hydrochlo-ride dost of 200 mg (50 mg q.i.d.), attained in 50 mg increments every 3 days, was lound to result in lewer discontinua-tions due to dizziness or vertigo than Ititation over only 4 days or no litration.



INDICATIONS AND USAGE
Tramadol hydrochlorida tablets are indicated for the management of moderate to moderately severe pain in adults.

COMPRAINDEATHORS

COMPRAINDEATHORS

Transatol hydrochloride tablets should not be administered to patients who have previously demonstrated hypersensitivity to transated in your other component of this product or openids. Transated is contraindicated in any streation where opinuts are contraindicated, including abuse intexication with any of the following: alcohol, hyppoxics, natroits, centrally acting analysists, ophists or psychotropic drugs. Transated irray worsen contral network system and respiratory depression in these patients.

## WARNINGE

actorer ross. Saforers have kens roporied in patients receiving transadol hydrochloride tablets within the recommended dosage range. Spordaneous post manteting reports indicate that secture risk is isoroased with doses of framadol above the recommended range. Corcumitation loss of transadol increases the secture risk is alteriate tacking:

- Selectivo servizarin respishe inhibitors (SSR) antidepressable or annestica). Trispris antidepressamb (TCAs), sed other trispriic compounds (e.g., cyclobe azaprime, promethazise, stc.), or
- unrer oppores,
   definishtration of transadel hydrochloride tablets may enhance the seizure risk in petients taking:
   MAD inhibiture (see also WARMINGS, Use with MAO inhibiture).
   Recordepties, or
   Other draps their reduce the seizure threshold.

Rieta of convultions may also lacrease is patients with optiopsy, those with a history of setzures, or in patients with a ecognitized risk for setzure (such as head treema, metabolic disorders, alcohol and drug withdrawa), CRS Indextloss). In branchol overdense, cantzone administration may increase the risk of setzure.

## Anaphylactors Reactions Serious and rareh fatel a

Asaphylaetoic Reactions
Serious and rarely statal anaphylaetoid reactions have been reported in patients receiving therapy with tramadol hydrochioride oblists. When these events do eccur is noten following the first dose. Other reported allergic reactions include pruridus, heles. Donochropasam, anapoledwing, toke publiciarial necologists and Elevens-oblistions syndrome. Perietris with a bistory of anaphylaetoid reactions to codeine and other opioids may be at increased risk and therefore should not receive tramodol (see COMRAMINICATIONS).

Respiratory Depression

Administer framadol Indicolhorida tablets cautiously in patients at risk for respiratory depression. In these patients alterretizien non-opioid analogistics should be considered. When large does of transicol are administered with anashletic mediizations or alcohol, respiratory depression may restal. Respiratory depression should be trated as an overfice. If nation
one is to be administered, use cautiously because it may precipitate setzines [see WARNINGS, Seizure Rink and OVERmonance.

DUSANCE, determinion with Central Nervoes Byetern (CNS) Depressants Immadel hydrochloride tablets should be used with caution and in reduced dosages when administered to patients resulv-ing CRS depressants such as about to page as a resulting agents, nanotics, phonothistines, transpullicers or sectably hyp-notics. Transadel increases the risk of CNS and respiratory depression in these patients.

horces of introces the research of the and respiratory depression in these patients.

Increased introces held Pressure or Ethad Trauma

Tramadol hydrochloride tablets should be used with caution in patients with increased intracranial pressure or head injury.

The respiratory depressant affects of objects include carbon dioxide reterrition and secondary elevation of creetorspinal little greaters, and may be markedly exaggerated in these patients. Additionally, pupility changes (mixings) from tramadol may obscure the existence, extent, or course of intracranial pathology. Utilities should also maintain a high order of suspicion for adverse drug reaction when evaluating altered mental status in these patients of they are receiving tramadol (See Respiratory Oppression).

Presenting Parties of the Institute of In



Use transied hydrochloride labels with great caution is species taking monoamine codase inhibitors. Animal studies have shown increased districts with combined administration. Concomitant use of transidel with MAO tribibitors or SSRI's increases the risk of adverse events, including seture and serotonin syndrome.

## Withdrawal

Withdrawal symptoms may occur 8 transdol hydrochloride tablets are discontinued abruptly. (See DRUG ABUSE AND DEPENDENCE). These symptoms may include anxiety, sweating, insommia, rigors, paln, nausea, termors, diarrhea, upper expiration; symptoms, plosenotion, and rarely ballucinations. Clinical experience suggests that withdrawal symptoms may be releved by Lapering the medication.

## Physical Dependence and Abase Tramadol hydrochloride tablets m

Physical Dependences and Albese Transpold hydrochinist bables may induce psychic and physical dependence of the morphins-type (µ-opicid) (see DRUG ABUSE AND DEPENDENCE). Transpol should not be used in opicid-dependent patients. Transpol has been shown to raintiate physical dependence in some patients that have been previously dependent on other opicids. Dependence and abuse, including drug-seeking behavior and baking illicit actions to abblin the drug, are not brinted to those patients with prior history of opinial dependence.

plor instructions or operations.

Risk of Overdinangie

Serious potential consequences of overdosage with framadol hydrochloride tablets are central nervous system depression, respiratory depression and death. In treating an overdose, primary affection should be given to maintaining adequate venilation along with general supportive treatment (see OVERBOSAGE).

NUTIONS Abdominal Conditions (ministration of tramado) way complicate the clipical assessment of patients with acute abdominal conditions.

Use to Renal and Highric Discuss
Impaired renal function results in a decreased rate and extent of excretion of transdol and its active metabolite. Mr. In
patients with creating decreases of less time 30 ml/min, during reduction is recommended (see DDSAGE AND ADMONDETERATION). Metabolism of transacki and Mr. is reduced in petients with advanced crimosis of the fiver. In crimotic
patients, doing reduction is recommended (see DDSAGE AND ADMINITRATION).

With the prolonged half-life in these conditions, activerement of steady-state is delayed, so that a may take several days for elevated plasma concentrations to develop.

Information for Patients

• Trainabol hydrochloridic labets may impair mental or physical abilities required for the performance of potentially hazardous tasks such as driving a car or operating machinery.

• Trainabol hydrochloridic labets should not be laben with alabole containing beverages.

• Trainabol hydrochloridic labets should be used with caution when labing medications such as tranquilizers, hypnolics or other opitale containing analysis is.

• The patient should be instructed to inform the physician if they are originant, lithink they might become pregnant, or are trying to become pregnant (see PRECANTORIS, Labor and Delivery).

• The patient should understant the single does and 24 hour does almul and the time through between doess, since exceeding these recommendations can result in respiratory depression, selections and death.

Ing interactions
for vitro studies indicate that tramadel is untitlely to inhibit the CYPSA4-mediated metaborism of other drugs when tramadel is administered concernbantly at therapeutic diseas. Transdol does not appear to induce its own metaborism in humans, since observed maximal plasma concentrations after multiple oral doses are higher than sequected based on single-dose data. Transdol is a milki inducer of selected drug metaborism pathways measured in animals.

Use with Carbamazepine
Patients taking combinisatepine may have a significantly reduced analgesic effect of transdot. Because carbamazepine
increases transdot metabolism and because of the seizure risk associated with transdot, concomitant administration of
transdot and carbamazepine is not recommended.

Use with Quisidine Transdat is metabolized to M1 by CYP2D6. Quinididae is a selective inhibitor of that isoenzyme, so that concombia administration of quinidine and transdat results in increased concentratives of transdat and reduced concompirations M1. The clinical consequences of litess findings are unknown. In vitro drug interaction studies in human liver micr somes indicate that transdatch has no offect on quintion metabolism.

Use with Inhabitors of CYP2D6
In vitro drug infrarction studies in human liver microsomes indicate that concentrant administration with inhibitors of
CYP2D6 such as fluxed ting, parcellin, and amatriphyline could result in some inhibition of the metabolism of Instruction.

New with Cimelidine
Concomblant administration of transadel with chaetidine does not result in clinically significant changes in tramadol pharmacokinglies. Therefore, no alteration of the tramadel desage regimen is recommended.

Use with MAO Imbidiors Interactions with MAO Imbidiors, due to interference with detectification mechanisms, have been reported for some centrally acting using (see WARMINGS, Use with MAO Inhibitions).

Use with Digazin and Wartann
Past-marketing servellances has revealed rare reports of digoxis texicity and alteration of warfarin effect, including elevation by order to his revealed rare reports of digoxis texicity and alteration of warfarin effect, including elevation of professional prof

invalues to positioning mines. Contingences if, Midagenesis, Impalment of Fertility. A slight, but statistically significant, brossase in two common murine tumors, pulmonary and hepatic, was observed in a mouse cartinagenity study, particularly in aged mines. More were dosed early up to 30 mg/kg (90 mg/m $^2$  or 0.35 times the maximum daily human dosage of 246 mg/m $^2$  for approximately two years, although the study was not done with the Machium Toleradd Oose. This finding is not believed to suggest fish in humans. No sectif finding occurred in a rat carcinogenicity study (dosing orally up to 30 mg/kg, 180 mg/m $^2$ , or 0.73 times the maximum daily human dosage).

Transated was not mustagenic in the following assays: Areas Selmonetal microsomal activation test, CHONHPT mammalian cell assays, mouse hypothem assay (in the absence of metabolic activation), dominant strift mustation test in micro, chromosoma abstraction test in Chinese hamsters, and been marrow microsomical institution test in Chinese hamsters, and been marrow microsomical institution test in Chinese hamsters, and been marrow microsomical institution test in Chinese hamsters, and we have the massay hypothem assay and microniculus test in microsomical countries assay and microniculus test in microsomical countries assay and microniculus test in microsomical countries assay and microniculus test in microsomical transactions on the mustage hypothem assays and microniculus test in microsomical transactions on the mustage hypothem assays and microniculus test in microsomical transactions are microsomical transactions and the mustage hypothem assay and microniculus test in microsomical transactions are microsomical testing and the mustage hypothem assays and microniculus testing and the mustage hypothem assays are microsomical testing and the microsomical testing and No effects on fertility were observed for transacol at oral dose levels up to 50 mg/kg (300 mg/m²) in hele rats and 75 mg/kg (450 mg/m²) in formale rats. These doseges are 1.2 and 1.6 times the maximum daily human dosage of 246 mg/m². (especially the control of the control of

Preparacy: Testogenic Effects: Pregnancy Category C
Transdot has been shown to be embryoshoid and letoloxic in mice, (120 mg/kg) or 360 mg/m²), rats (≥25 mg/kg or 150
mg/m²) and cability (≥75 mg/kg or 900 mg/m²) at maternally toold dosages, but was not transoperior at fliest does levels.
These dosages on a mg/m² basis are 1.4 ≥0.6, and ≥0.6 times the maximum daily numain disage (246 mg/m²) for mouse, rat and rabble, respectively.

mouse, at and nobbl, respectively. No dray effect feel feelings of the feeling of

About 147 dollits are second usery names usery expensions. Progeny of dams sectiving oral (gavage) dose levels of 50 months (see each set of period of period post-natal studies in rats. Progeny of dams sectiving oral (gavage) dose levels of 50 months (see each set) of the maximum damp damper or 12 meet for maximum damp purposes of the second set of the second second set of the second second set of the second second second set of the second s

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Nursing Mothers and a stress of the stress o

Productiful Use
The salety and efficacy of tramadol in patients under 16 years of age serve not been established. The use of tramadol in the pediatric population is not recommended.

Geristris Use In general, dose selection for an olderly patient should be cautious, issually starting at the low end of the dosing range, reflecting the greater frequency of decreased hepatic, renal or cardiac function and of concomitant disease or other drug

therapy. In patients over 75 years of age, daily doses in excess of 300 mg are not recommended. (see CLINICAL PHAR-MACOLOGY and GOSAGE AND ADMINISTRATION).

A total of 455 elderly (65 years of age or older) subjects were exposed to tramadol in controlled clinical trials. Of those, 145 subjects were 75 years of age and older.

In studies including geretric patients, treatment-limiting adverse events were higher in subjects over 75 years of age on pared to into sevender 65 years of age. Specifically, 30% of those over 75 years of age had gestrointestinal pretrainment-limiting adverse events compared to 17% of those under 65 years of age. Constipation resulted in discontinuation of treatment in 10% of those over 75.

## ADVERSE REACTIONS

ADVENSE REACTIONS

Thrandol hydrochriotric tablets were administered to 550 palients during the double-blind or open-label extension particulars, studies of chronic nonmalignam pain. Of these patients, 375 were 65 years old or older. Table 2 reports the causative incidence rate of advance reactions by 7, 30 and 90 days for the most frequent reactions (5% or more by 7 dh. The most frequently reported events were in the central nervous system and opastrofriestinal system. Although the retinosis listed in the table are left to be probably rebied to tearnated administration. The reported interest about nucleos events that may have been due to underlying disease or concombant medication. The onward incidence rates of adversariances in these tribs were similar for frameworld and the retrieve control groups, TNENOIS\* WITC Codeios 87 locations 10 and 1

in Chronic Trials of Monmaligeaut Pain (N=421)						
	Upto	Up to	Up Lo	_		
	7 Days	30 Days	90 Days			
Dizziness/Vertigo	26%	31%	33%	П		
Neurea	24%	34%	40%			
Constipation	24%	38%	46%	ı		
Headache	18%	26%	32%	- 1		
Sommolence	16%	23%	25%			
Vorriting	9%	13%	17%			
Pruritus	6%	10%	11%			
*CNS Stimulation*1	7%	11%	14%			
Asheria	e% ·	11%	12%			
Sweating	6%	7%	P%			
Dyspepińa	5%	P%	13%			
Dry Mouth	5%	9%	10%			
Diantes	5%	6%	10%			

1 "CNS Stimulation" is a composite of nervousness, anciety, agitation, tremor, spassicity, supheria, emotional lability and

Incidence 1% to less than 5% possibly causably related: the following this adverse mactions that occurred with an incidence of 1% to less than 5% in clinical trials, and for which the possibility of a causal relationship with transdol exists.

## Body as a Whole: Mataise. Cardiovascular: Vasodilation

Cardiovascelar: Viscodialion.
Central Hermag System: Anothy, Confusion, Coordination disturbanca, Euphoria, Miosis, Nervousness, Sleep disorder.
Gestroinlerthest: Abdommal pain, Anorexia, Fatulence.
Nesenbestelate: Hyperfonia.
Etnia: Reash.
Special Sensens: Visual disturbance.
Hrogenital: Menopausal symptoms, Uninary frequency, Uninary refertilen.

Incidence less than 1% possibly causably related: The following lists adverse macritons that occurred with an incidence of less than 1% in clinical trials and/or reported in post-marketing experience.

Ness tien is in custod dues aroum injuries of personation, Analophysics, bestit, Subcidal tendency, Weight loss, Seratonin syndrome (mental status change, hyperreflexis, fever, thivering, tentor, agitation, disphoresis, setzures and coma). Certiforation from the status change, hyperreflexis, fever, thivering, tentor, agitation, disphoresis, setzures and coma). Certiforation from the status change of the status of the s

Plantonionor, respirator proposa sensitivo de pidermal necrolysis, Urlicana, Vesicies Sein: Sievens: Johnson syndrome/Toxic epidermal necrolysis, Urlicana, Vesicies Septelal Servers: Oyagetria, Servers (Oyagetria, Urogenital: Dysuria, Menstrual disorder.

Order adverse experiences, cause tealinoship unknown: A variety of other adverse events were reported infrequently in palaries taking transade hydrochloride tables during clinical trials and/or reported in post-marketing experience. A causal redationship between transadel hydrochloride tables and these events has not been determined. However, the most signifi-cant events are listed below as alreting information to the physician. Cardiovescular, Abnormat ECG, Hypertension, Hypotension, Myocardial (schamia, Palpitations, Pulmonary edema, Pulmonary workshifter.

Pulmonary ombolism.
Central Reviews Systems: Migraine, Speech disorders.
GastroIntestisal: GastroIntestinal bleeding, Hepatilis, Stornalitis, Livor lailure.
Labornity Abaomasildies: Creativino Arcasas, Elevated (iver enzymes, Hamoglobin decrease, Proteinuria,
Sensory: Cataros, Dealness, Timitius.

Sensory: Catariots: Dealess, Timitus.

DRIUG ABUSE AND DEPENDERGE.

Trainated may induce psychic and physical dependence of the morphine-type (μ-opioid) (see WARNINGS). Dependence and abuse, including drug-serbing behavior and taking lifety actions to obtain the drug are not limited to those patients with prior history of opioid dependence. The risk in patients with substance abuse, has been observed to be higher. Trainadel is associated with craving and follerance development. Withdrawal symptoms may occur if trainadel is descontinued aburuply. These symptoms may include: another, sweating, insomnia, plages, plan, massac tremens, distribus, upper respiratory symptoms, plostraction, and rarely hallucinations. Clinical experience suggests that withdrawal symptoms may be retieved by reinstitution of opioid therapy followed by a gradual, lapered dose reduction of the medication combined with symptomatic support.

## OVERDOSAGE

OVEHIODAGE:
Scrious potential consequences of overdosage are respiratory depression, lethargy, coma, salture, cardiac arrest and death. Isse WARBUNGS, Fatalities have been reported in post marketing in association with both intentional and unintentional lound understanding the control of the property of the property

## DOSAGE AND ADMINISTRATION Adulis (17 years of age and over)

recours (17 years or age and over). For patients with moderate to moderately severe chronic pain not requiring rapid onset of analysis effect, the folerability of tramshol can be improved by initiating literapy with a fination regimen. The folial daily dose may be increased by 50 mg as relented every 3 days to reach 200 mg/day (50 mg q. i.d.). After literation, framadol hydrochloride tablets 50 to 100 mg can be administered as needed for pain cellef every 4 to 6 hours not to esceed 400 mg/day.

For the subset of paleints for whom rapid onset of analyses offset is required and for whom the benefits outweigh the risk of discontinuation to advance events associated with four final doses, transaciol hydrodrodic bab

## lesividualization of Dose

leaf-industration of Dear Soot pair management practice dictates that the does be individualized according to patient need using the lowest beneficial does. Studies with transatol in addits have shown that starting at the leavest possible does and thrating upward will result in leavest accordingly.

In all patients with creatilities elearnose less than 30 millions, it is recommended that the dosting interval of transatol be increased to 12 hours, with a maximum daily does at 200 mg. Store only 7% of an administered does for studies on the day of diagle administered does for studies the recommended does for administered the recommended that the design of the recommended does for administered the services of the recommended does for administered the recommended does for administered the services in 50 mg. Store out 7% over 12 hours.

In general, does selection for an electry patient over 55 years out should be cardious, scalarly satisfing at the low end of the dosing angue, reflecting the greater frequency of decreased they patient sever 75 years old, total does should not exceed 300 mg/day. HOW SUPPLED

Tramadol Hydrochloride l'ablets, 50 mg. are white to off-white, film coated, round tablets debossed 'e' over '311' on one side and plain on the other side and are supplied in bottles of 100, 500 and 1000.

Dispense in a tight container. Store at committed room (emperature, 15"-30"C (59"-86"F) [see USP].

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